

King Fahd University of Petroleum and Minerals  
Department of Mathematical Sciences  
**Math 102.07 Quiz I Fall (051)**

ID #: \_\_\_\_\_ NAME: \_\_\_\_\_

Serial # \_\_\_\_\_ Section #: \_\_\_\_\_

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1. Use the definition to find the area above  $[0, 2]$  and below the curve of  $y = x^3$ .

2. 
$$\int \frac{(3x - 1)dx}{(3x^2 - 2x + 1)^4}.$$

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1. Find  $f(x)$  if  $f''(x) = 12x^2 + 6x - 4$ ,  $f(0) = 4$  and  $f(1) = 1$ .

2. Find  $\int e^x \sqrt{1 + e^x} dx$ .